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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,771	09/24/2003	E. Stuart Savage	TETRP040CIP	4365
37334	7590 07/13/2004		EXAMINER	
D'AMBROSIO & ASSOCIATES, P.L.L.C. 10260 WESTHEIMER			CINTINS, IVARS C	
SUITE 465	HEIMEK		ART UNIT	PAPER NUMBER
HOUSTON,	TX 77042		1724	
			DATE MAILED: 07/13/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
Office Action Commons	10/669,771	SAVAGE ET AL.	
Office Action Summary	Examiner	Art Unit	
The MAN INO DATE of this communication and	Ivars C. Cintins	1724	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply 1 fl NO period for reply is specified above, the maximum statutory period who is a period to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro		
Disposition of Claims			
4) ⊠ Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-23 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or			
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner 11.	epted or b) objected to by the formula of the lightest of the lightest of the lightest of the drawing of the lightest of the drawing of the lightest of the lighte	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

Application/Control Number: 10/669,771

Art Unit: 1724

21.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 8 and 15 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Nebolsine (U.S. Patent No. 4,128,477). See col. 1, lines 6, 11 and 35; col. 2, line 31; col. 3, line 2; col. 4, lines 2-3, 35-37 and 53-54; col. 6, lines 19-21 and 35-38; col. 7, lines 10-11, 14, 23-24, 50-56 and 61; col. 8, lines 21-23; and col. 9, lines 17-19.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6, 7, 9-14 and 16-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nebolsine in view of Maxson (U.S. Patent No. 5,156,738). Nebolsine discloses the claimed invention with the exception of the flow rates of the backwash fluids (claims 6, 7, 12, 13, 18 and 19), the air only backwash treatments (claims 9-11), the duration of the backwash treatment (claims 14 and 20), and the frequency of the backwash treatment (claims 16-23). Maxson discloses backwashing a filter bed, and teaches air only backwashing followed by water backwashing (see col. 1, lines 26-32). This reference further teaches backwashing at the recited flow rates (col. 1, lines 20, 28 and 32), for the recited duration of time (col. 1, line 25), at the recited frequency (col. 1, lines 24-25). It would have been obvious to one of ordinary skill in the art at the time the invention was made to backwash the filter bed of Nebolsine in the manner

Application/Control Number: 10/669,771

Art Unit: 1724

taught by Maxson, since this secondary reference teaches that filter beds are typically backwashed in this manner (see col. 1, lines 17-36). Also, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include an additional air only backwashing treatment after the water backwashing in the thus modified primary reference, as recited in claims 10 and 11, in order to further promote the destruction of BOD components in the sewage undergoing treatment. Such modification is deemed to be especially obvious in view of the disclosure by Nebolsine that air may be added to the filtrate from the deep bed filter, in order to increase its level of dissolved oxygen (see col. 8, lines 21-23; and col. 9, lines 17-19).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to I. Cintins whose telephone number is (571) 272-1155. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Duane Smith, can be reached at (571) 272-1166.

The centralized facsimile number for the USPTO is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ivars C. Cintins
Primary Examiner

Art Unit 1724

I. Cintins July 11, 2004